

RepRisk Spatial Analytics



Space for Finance – how space technology can support the greening of the financial sector

European Space Agency (ESA) Downstream Gateway Digital Workshop

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A global leader and pioneer
in ESG data science

RepRisk supports due diligence in the financial sector and for 3rd party risk management

80+ of the world's leading banks

rely on RepRisk for their due diligence and risk management processes

17 of the 25 largest investment managers

trust RepRisk as an ESG risk overlay for the investments

The world's largest sovereign wealth fund

has used RepRisk since 2009 to screen its portfolio for environmental and social risks

The leading sustainability index providers

S&P DJI, SAM (DJSI), and FTSE4Good have integrated RepRisk data into their methodologies

10+ UN agencies and the UN Global Compact Foundation

trust RepRisk for their partner, project, and country due diligence on ESG risks

The Sustainability Accounting Standards Board (SASB)

utilized RepRisk data as a key research input when developing their ESG materiality framework

ESG risk incidents can materially impact a company's bottom line



Compliance risks



Reputational risks



Financial risks

RepRisk identifies and assesses ESG risk incidents daily



**ESG through
a risk lens**

**With an outside-in
perspective**

**Powered by a
unique combination
of AI & machine
Learning + human
intelligence (HI)**

**Daily-updated
research and metrics,
since January 2007**



The world's largest database on ESG risks



165,000+
Companies



40,000+
Infrastructure
projects



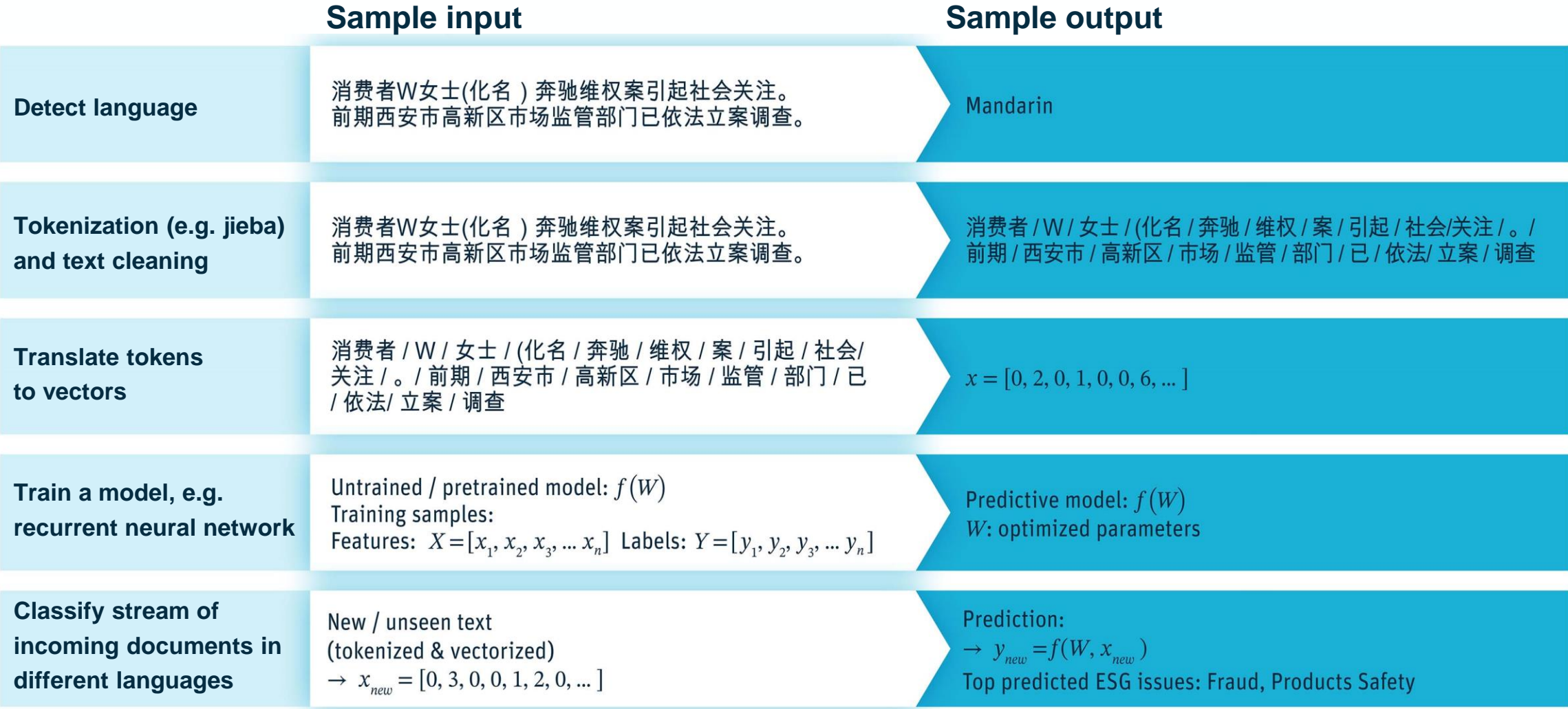
34
Sectors



ALL
Countries



Machine learning: Training a neural network to identify specific ESG issues within a risk incident



Phase I Proximity Analysis



RepRisk provides company-asset ESG risk insights based on proximity of projects to environmentally and socially sensitive areas

Phase II Remote Sensing



RepRisk provides company-asset ESG risk insights based on emissions and land use data from satellite imagery

Maps projects in high local footprint industries to GPS coordinates

Provides insight into company assets' ESG risks based on proximity of projects to environmentally and socially sensitive areas

Associates these risks to companies owning or operating these assets

Immediate focus

- Mines and Oil & Gas projects
- Environmentally sensitive sites

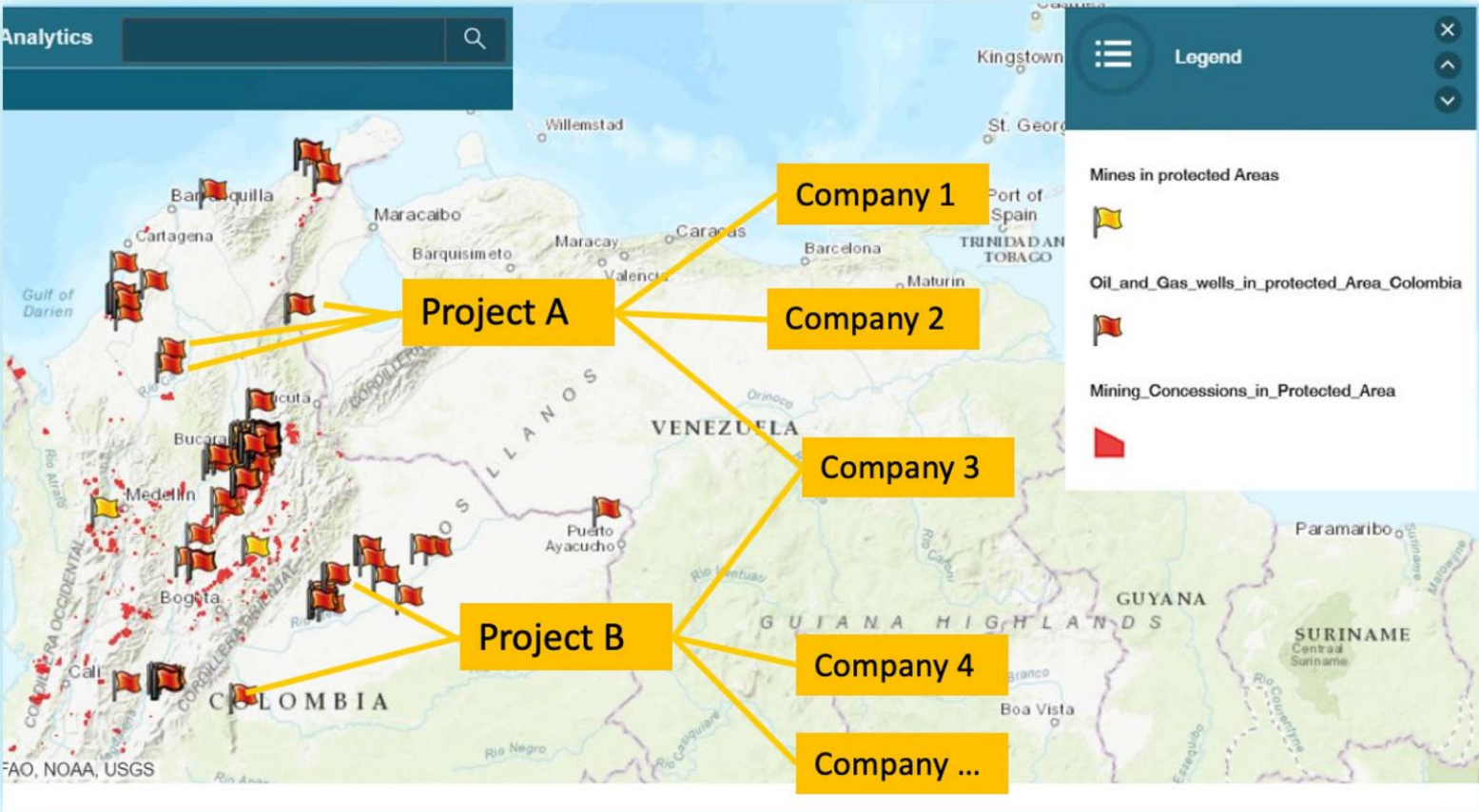
Future developments

- Socially sensitive sites, land use
- Emissions

RepRisk Spatial ESG Analytics



Adding asset-level ESG risk intelligence using GIS data



Maps infrastructure projects in industries with high local footprint to their respective GPS coordinates

Provides insights into the ESG risks resulting from the location of the project assets vis-à-vis environmentally and/or socially sensitive areas, e.g. protected areas, UNESCO World Heritage Sites

Associates these risks to companies owning or operating these assets and adds this risk intelligence to companies' ESG risk research

Vale SA (formerly Companhia Vale do Rio Doce; CVRD)

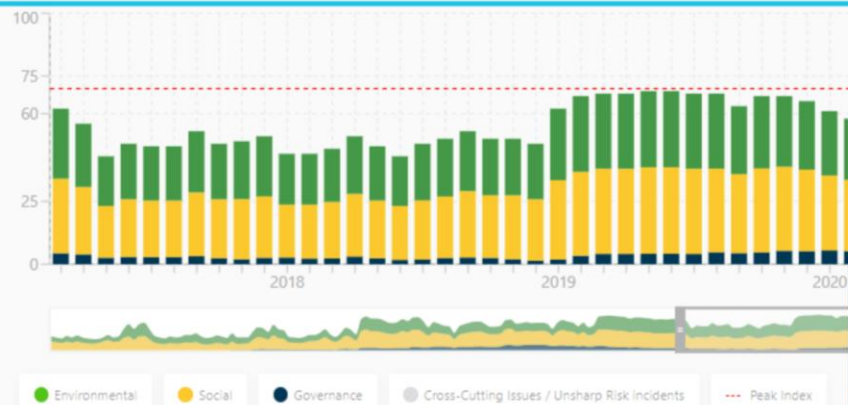
Company Profile

Search for companies, projects, sectors and others

SEARCH ALL ENTITIES

- Info
- Risk Overview**
- RepRisk Rating
- UNGC Principles
- Issues
- Topic Tags
- Cases
- Countries
- Companies
- Projects
- NGOs
- Campaigns
-

RepRisk Index



Peak RRI
Apr 12th 2019
70

Current RRI
Feb 6th 2020
58

The UNESCO logo indicates that one of the risk areas is a UNESCO World Heritage Site.

The IUCN logo indicates that one of the risk areas is classified within IUCN's categories I-IV.

AZE indicates that one of the risk areas is an Alliance for Zero Extinction Site.

Spatial ESG Analysis

Environmental Spatial Risk: High

Locations	Project	Company Role	Stage	Env. Spatial Risk	Special Designations	Protected Areas	Key Biodiversity Areas
	Morraria de Santa Cruz Mine	Owner	Expanding	Medium		4 within 5 km; 1 within 10 km	1 within 5 km
	Mariana Mining Complex	Owner and Operator	Active	High	AZE	2 within 5 km; 1 within 10 km	1 overlapping; 1 within 10 km
	Minas Itabirito Mining Complex	Owner	Active	High		1 overlapping; 1 within 10 km	
	Vargem Grande Mining Complex	Owner	Active	High	AZE	1 overlapping; 2 within 5 km	1 overlapping
	Cristalino Project	Owner	Planned	High		1 overlapping; 1 within 5 km	1 overlapping

[See 18 more...](#)

Thank you!



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